

Few more fitting names could have been chosen for the small Aquila-engined Vickers fighter than "Venom." The sketch on the right shows details of its engine installation, cockpit enclosure and electrically operated retractable undercarriage.



The Harrow heavy bomber is the company's most recent product, the first photographs appearing in this issue. Designed for carrying heavy loads over long distances it is equipped with advanced forms of armament installations. Apart from its functions as a heavy bumber the Harrow has been planned

with a view to operating as a troop carrier. There are gun

turrets in the nose and tail and amidships.

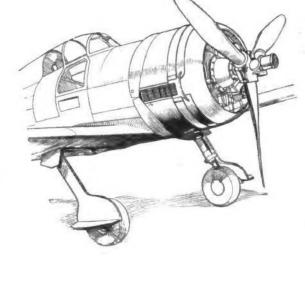
The installation of Handley Page slots, flaps and of variablepitch airscrews on the Bristol Pegasus engines enables the machine to operate with heavy loads from small aerodromes. Of metal construction, the Harrow has fabric and metal cover-

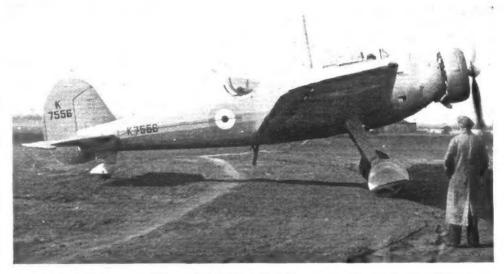
Being designed as a high-wing monoplane certain difficulties would present themselves were the undercarriage made re-tractable, so, instead, the makers have fitted a clean fixed type of landing gear.

Performance trials have given results far beyond the expectations of the technical staff responsible for the design.

HAWKER

ALTHOUGH single and two-seater Hawker biplane types A are still being built, interest naturally centres round the new Hurricane single-seater fighter, production orders for which





The first Vickers machine of full "geodetic" construction was the Wellesley monoplane, now powered with a 850 h.p. Bristol Pegasus X.

have been received from the Air Ministry under the R.A.F. Expansion Scheme.

The Hurricane comes within the '300 m.p.h. plus' category, and was built at the company's Kingston-on-Thames (Surrey) works to meet Air Ministry specification F.36/34. Details of armament, performance and construction are withheld, but it may be stated that the machine is of fairly conventional construction with fabric covering. The engine is a Rolls-Royce Merlin driving, in the prototype, a large two-bladed wooden airscrew. To add that the undercarriage is retractable, that flaps are fitted and that the pilot is completely enclosed seems almost superfluous in view of the extremely high performance.

The undercarriage is arranged to retract inboard into the cantilever wing, with a slight rearward motion, the wheel wells being covered during flight by panels moving with the wheels.

Landing lights are housed in the leading edge of the wing (this fact is significant in that no aeroplane which was not

docile and without vice during landing would be adopted by the R.A.F. as a night-flying and the military equipment is be-lieved to be very comprehensive. The well-established Fury

single-seater fighter biplane, as supplied to the R.A.F., has been developed during the past year; one particularly interesting model

A medium bomber of impressive appearance and performance, the first Vickers twin-engined "geodetic" monoplane has been adopted by the R.A.F. under the name Wellington.

